

UK Type Examination Certificate RELC21UKEX1012X Issue A.0

United Kingdom Conformity Assessment

1. Product or Protective System Intended for use in Potentially Explosive Atmospheres UKSI 2016:1107 (as amended).
2. Equipment F3xx[-aa][-b][-cc] and F97
 - xx indicates the number of spurs (04, 08, or 12)
 - aa blank for over-voltage protection
 - V2 for no over-voltage protection
 - b -T for optional built-in terminator,
blank for no built-in terminator
 - cc blank for standard pluggable screw terminal connectors
 - PC for pluggable spring clamp connectors
 - PD for pluggable insulation displacement connectors
 - F97 The F97 is an accessory for the F3xx products. It is certified as part of the F3xx certification; however, it is not marked to be a stand-alone certified product.
3. Manufacturer Eaton Electric Limited
4. Address Great Marlings, Butterfield
Luton Beds. LU2 8DL UK
5. The equipment is specified in the description of this certificate and the documents to which it refers.
6. Relcom, Inc., 2221 Yew Street, Forest Grove, OR, 97116, USA, in accordance with Regulation 43 of the Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres Regulations 2016, UKSI 2016:1107 (as amended), self-certifies (as the Design Authority) that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Schedule 1 of the Regulations.
The examination and test results are recorded in the confidential reports listed in Section 11.
7. If an 'X' suffix appears after the certificate number, it indicates that the equipment is subject to specific conditions of use (affecting correct installation or safe use). These are specified in Section 12.
8. This UK Type Examination certificate relates only to the design and construction of the specified equipment. Further requirements of the Regulations apply to the manufacturing process and supply of the product. These are not covered by this certificate.
9. Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the confidential report, has been demonstrated through compliance with the following documents:
EN IEC 60079-0:2018 EN60079-7:2015/A1:2018 EN60079-11:2012 EN60079-15:2010
10. The equipment shall be marked with the following:



The ambient operating temperature range : -50°C to +70°C.

The safety markings for the F3xx apparatus with overvoltage protection, **Ex nA [ic] IIC T4 Gc, Ex nA IIC T4 Gc, Ex ec IIC T4 Gc, Ex ec [ic] IIC T4 Gc, and FISCO Ex ic IIC T4 Gc** are specified in the Technical File (Document No. 502-460).

The safety markings for the F3xx apparatus without overvoltage protection, **Ex nA IIC T4 Gc**, and **Ex ec IIC T4 Gc** and **FISCO Ex ic IIC T4 Gc**, are also specified in the Technical File (Document No. 502-460).

General notes

- The 'nA' relates to the option of using a non-arcing trunk and spurs.
- The 'ec' relates to increased safety for explosive atmospheres.
- The 'ic' relates to the energy-limited spurs and the alternative use of an energy-limited trunk.

Notes for **Ex nA [ic] IIC T4 Gc**, and **Ex ec [ic] IIC T4 Gc**

- These markings do not apply to the F3xx versions without overvoltage protection.
- The permitted input parameters from the trunk are: U_i (gas group IIC):24V, U_i (gas groups IIB, IIA):32V, I_i :2A, I_i and C_i are negligible.
- The parameters of the energy limited spur are: The voltage U_o = Megablock input voltage. The apparatus supplying the input voltage must provide voltage limiting meeting IEC 60079-11 requirements. I_o :56mA, L_o (gas group IIC):0.15mH, L_o (gas groups IIB, IIA):0.26mH, C_o :80nF.

Notes for **Ex nA IIC T4 Gc**, and **Ex ec IIC T4 Gc**

- The permitted input parameters from the trunk are: U_i :32V, I_i :2A.

Notes for **FISCO Ex ic IIC T4 Gc**

- The installation shall comply with EN 60079-11.

11. Certificate history and evaluation reports:

Issue	Date	Associated Confidential Report	Notes
A.0	7/30/2021	503-389	First issue.

12. Specific Conditions of Use

- The apparatus is to be installed in an enclosure which maintains a minimum ingress protection rating of IP54 and meets the enclosure requirements of EN IEC 60079-0, EN 60079-11, and EN 60079-15 as appropriate for the installation.
- The apparatus shall only be used in an area of at least pollution degree 2, as defined by EN 60664-1.
- Provisions shall be made externally to the apparatus to prevent the rated input being exceeded by transient disturbances of more than 140% of the rated voltage.



M. Strauser
EX Representative

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